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PTO/SB/08a (08-03)

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 2

Application Number	10/823,849
Filing Date	APRIL 13, 2004
First Named Inventor	YEUK-FAI MOK, ET AL.
Group Art Unit	2812
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/8298/CMP/ECR/RKK
Submission Date	7/30/04

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
DV	A1	US-4,110,176	08-29-1978	Creutz, et al.	
	A2	US-4,326,940	04-27-1982	Eckles, et al.	
	A3	US-4,519,846	05-28-1985	Aigo	
	A4	US-4,568,431	02-04-1986	Polan	
	A5	US-4,693,805	09-15-1987	Fazle	
	A6	US-4,732,785	03-22-1988	Brewer	
	A7	US-4,789,445	12-06-1988	Goffman, et al.	
	A8	US-5,162,260	11-10-1992	Leibovitz, et al.	
DV	A9	US-5,222,310	06-29-1993	Thompson, et al.	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
DV	B1	EP 0 421 735 A2	04-10-1991	Kabushiki Kaisha Toshiba		
	B2	EP 0 881 673 A2	12-02-1998	International Business Machines Corporation		
	B3	EP 1 037 263 A2	09/20/2000	Applied Materials, Inc.		
	B4	EP 1 085 557 A2	03-21-2001	Applied Materials, Inc.		
	B5	JP 4-131395	05-06-1992	Toshiba Corp, Ebara Corp		
	B6	JP 4-280993	10-06-1992	Electroplating Eng of Japan		
	B7	JP 54-148112	11-20-1979	Nakagawa KK		
	B8	JP 58-182823	10-25-1983	Nipon Denki KK		
	B9	JP 6-17291	01-25-1994	NEC Corp		
	B10	JP 63-118093	05-23-1988	Tanaka Electron Inc		
	B11	WO 93/17448	09-02-1993	AG Processing Technology, Inc.		
DV	B12	WO 97/12079	04-03-1997	Intel Corporation		
	B13	WO 99/40615	08/12/1999	Semitoool, Inc.		

Examiner

*Shuland*

Date Considered

10/30/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number 10/823,849  Filing Date APRIL 13, 2004  First Named Inventor YEUK-FAI MOK, ET AL.  Group Art Unit 2812  Examiner Name UNKNOWN  Attorney Docket Number AMAT/8298/CMP/ECP/RKK  Submission Date 7/30/04	
Sheet	2	of	2

#### NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
DV	C1	COLOMBO, "Wafer Back Surface Film Removal"0, Central R&D, SGS-Thomson Microelectronics, Agrate, Italy, Spin Tech Technology, 6 pages.	
	C2	HOLM, Electric Contacts Theory and Application, Fourth Completely Rewritten Edition, Springer-Verlag, New York Inc., August 21, 1967, 27 pages.	
	C3	JIANG, et al., "Variations in Cu CMP Removal Rate Due to Cu Film Self-Annealing", Advanced Metallization Conference in 1998 (AMC 1998), 8 pages.	
	C4	PITNEY, "NEY Contact Manual", Electric Contacts for Low Energy Uses, 1973.	
	C5	SIMPSON, et al., "The Electrical Integrity of Copper Plated Wafers Using a Novel Plating Bath Chemistry" Slides Publicly Disclosed, 13 Pages October 17-22, 1999.	
	C6	SINGER, "Tantalum, Copper and Damascene: The Future of Interconnects," Semiconductor International, June 1998, Pages cover, pages 91-94, 96, & 98.	
	C7	SINGER, "Wafer Processing", Semiconductor International, June, 1998, page 70.	
	C8	Laurel Technologies Corporation from <a href="http://www.laurell.com">www.laurell.com</a> , "Two control configurations available- seeWS 400 OR WS-400Lite." 1998, 6 pages.	
	C9	Welcome to Verteq Online Products Overview, from Verteq from <a href="http://www.verteq.com">www.verteq.com</a>	
	C10	"Metallization & Interconnect", Semitool, Inc., 1998, 4 pages	
	C11	European Search Report from EP 0 110 3525 dated July 10, 2001.	
	C12	European Search Report for Application 301415.6 dated December 11, 2000.	
DV	C13	Austrian Patent Office Search report for Application 00010504	

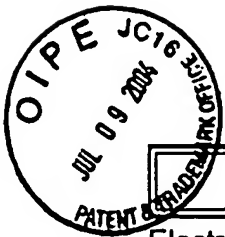
Examiner

*R. Ireland*

Date Considered 10/30/05


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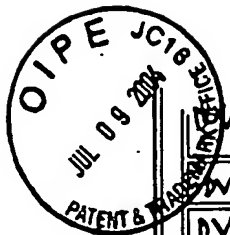
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Title of Invention	TWO POSITION ANNEAL CHAMBER																																																																							
<div>Application Number: 10/823849 </div> <div>Confirmation Number: 5507</div> <div>First Named Applicant: YEUK-FAI MOK</div> <div>Attorney Docket Number: AMAT8298</div> <div>Search string: ( 3649509 or 3727620 or 4027686 or 3770598 or 4092176 or 4113492 or 4315059 or 4336114 or 4376685 or 4405416 or 4428815 or 4435266 or 4489740 or 4510176 or 4518678 or 4816098 or 5039381 or 5055425 or 5069760 or 5092975 or 5100516 or 5155336 or 5224504 or 5230743 or 5252807 or 5256274 or 5259407 or 5290361 or 5292393 or 5316974 or 5324684 or 5328589 or 5349978 or 5368711 or 5377425 or 5377708 or 5415890 or 5429733 or 5431700 or 5442235 or 5447615 or 5449447 or 5516412 or 5527739 or 5608943 or 5625170 or 5651865 or 5677244 or 5705223 or 5716207 ),pn.</div> <div>US Patent Documents</div> <div>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</div> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>DV</td><td>1</td><td>3649509</td><td>1972-03-14</td><td>MORAWETZ, ET AL.</td><td rowspan="11"></td><td rowspan="11"></td><td rowspan="11"></td></tr><tr><td></td><td>2</td><td>3727620</td><td>1973-04-17</td><td>ORR</td></tr><tr><td></td><td>3</td><td>4027686</td><td>1977-06-07</td><td>SHORTES, ET AL.</td></tr><tr><td></td><td>4</td><td>3770598</td><td>1973-11-06</td><td>CREUTZ</td></tr><tr><td></td><td>5</td><td>4092176</td><td>1978-05-30</td><td>KOZAI, ET AL.</td></tr><tr><td></td><td>6</td><td>4113492</td><td>1978-09-12</td><td>SATO, ET AL.</td></tr><tr><td></td><td>7</td><td>4315059</td><td>1982-02-09</td><td>RAISTRICK, ET AL.</td></tr><tr><td></td><td>8</td><td>4336114</td><td>1982-06-22</td><td>MAYER, ET AL.</td></tr><tr><td></td><td>9</td><td>4376685</td><td>1983-03-15</td><td>WATSON</td></tr><tr><td>V</td><td>10</td><td>4405416</td><td>1983-09-20</td><td>RAISTRICK, ET AL.</td></tr><tr><td>DV</td><td>11</td><td>4428815</td><td>1984-01-31</td><td>POWELL, ET AL.</td></tr></tbody></table>							init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	DV	1	3649509	1972-03-14	MORAWETZ, ET AL.					2	3727620	1973-04-17	ORR		3	4027686	1977-06-07	SHORTES, ET AL.		4	3770598	1973-11-06	CREUTZ		5	4092176	1978-05-30	KOZAI, ET AL.		6	4113492	1978-09-12	SATO, ET AL.		7	4315059	1982-02-09	RAISTRICK, ET AL.		8	4336114	1982-06-22	MAYER, ET AL.		9	4376685	1983-03-15	WATSON	V	10	4405416	1983-09-20	RAISTRICK, ET AL.	DV	11	4428815	1984-01-31	POWELL, ET AL.
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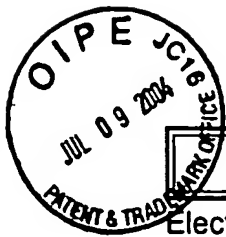
Remarks

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Signature


Examiner Name	Date
<i>Shuland</i>	10/30/05



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

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Title of Invention	TWO POSITION ANNEAL CHAMBER																																																																																																						
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## US Published Applications

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<input type="checkbox"/>	3	20020022363	2002-02-21	RITZDORF, ET AL.			
<input checked="" type="checkbox"/>	4	20020029961	2002-03-14	DORDI, ET AL.			
<input checked="" type="checkbox"/>	5	20020037641	2002-03-28	RITZDORF, ET AL.			

*Shuland*

10/30/05



DV	6	20020074233	2002-06-20	RITZDORF, ET AL.
DV	7	20030045095	2003-03-06	RITZDORF, ET AL.

## Remarks

Note: Remarks are not for responding to an office action.

NO FEES DUE - FILED BEFORE 1ST OA - 2 OF 2

## Signature

Examiner Name	Date
<i>Shiland</i>	<i>10/30/05</i>